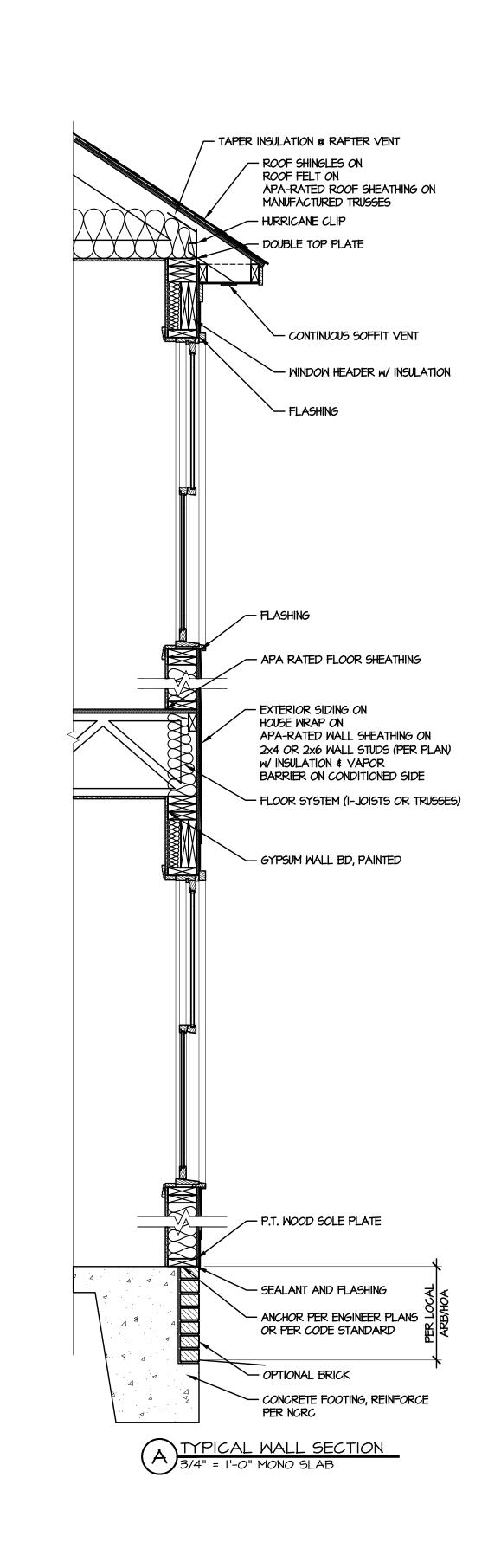
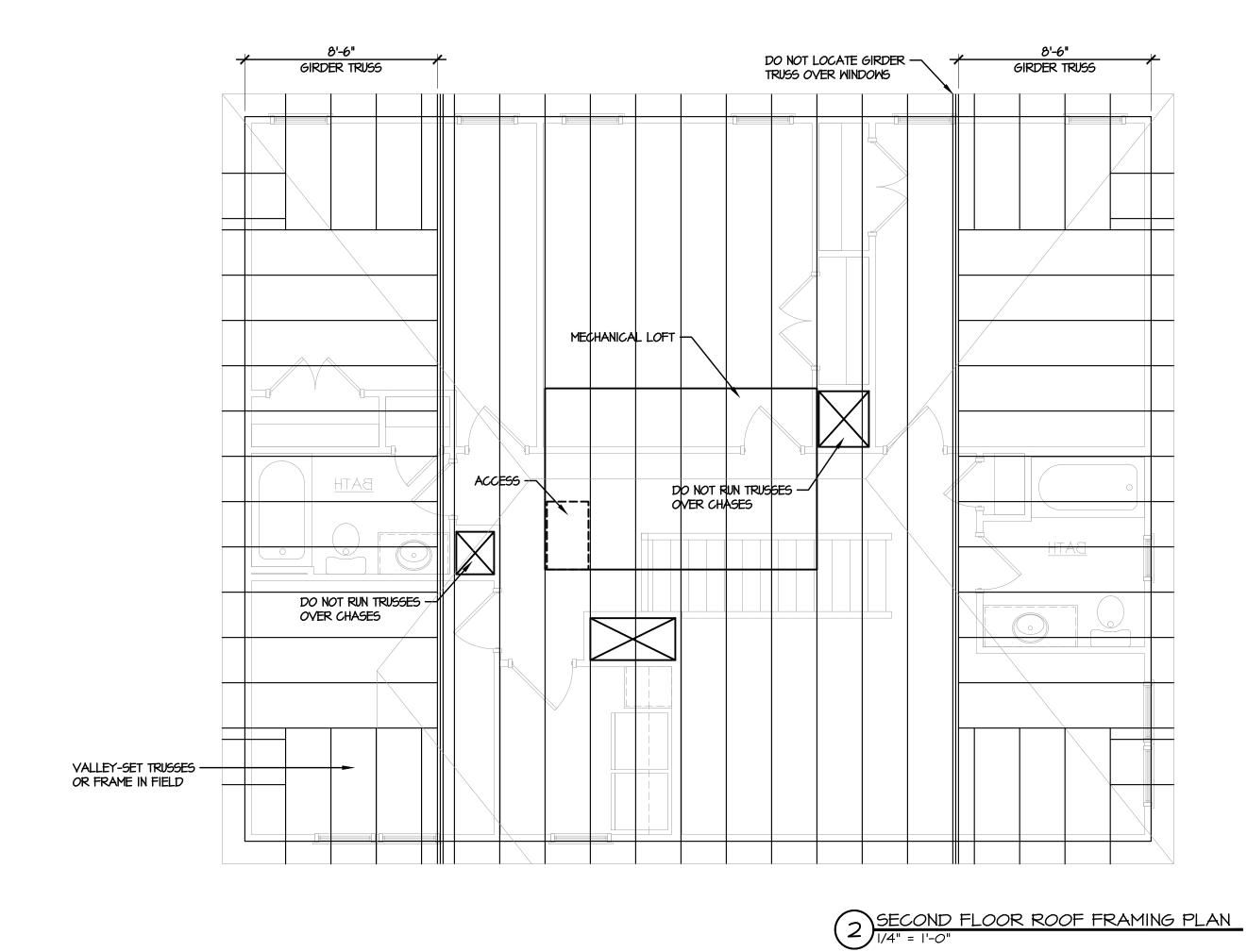


FIELD & REDLINE NOTES

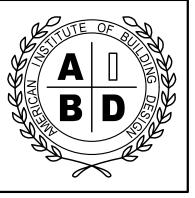


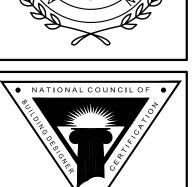


BEARING WALL BELOW ----DROP BEAM BELOW ---DO NOT RUN TRUSSES — THROUGH CHASES CHASE ABOVE — CHASE ABOVE -CHASE ABOVE -

SECOND FLOOR FRAMING PLAN

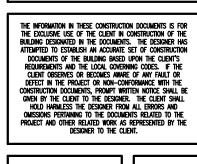


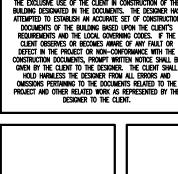


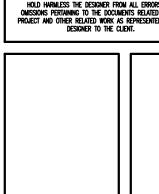


TODD TUCKER 34 - 156 FORTIFIED-WISE™ PROFESSIONAL









Caviness Land

CL 2560

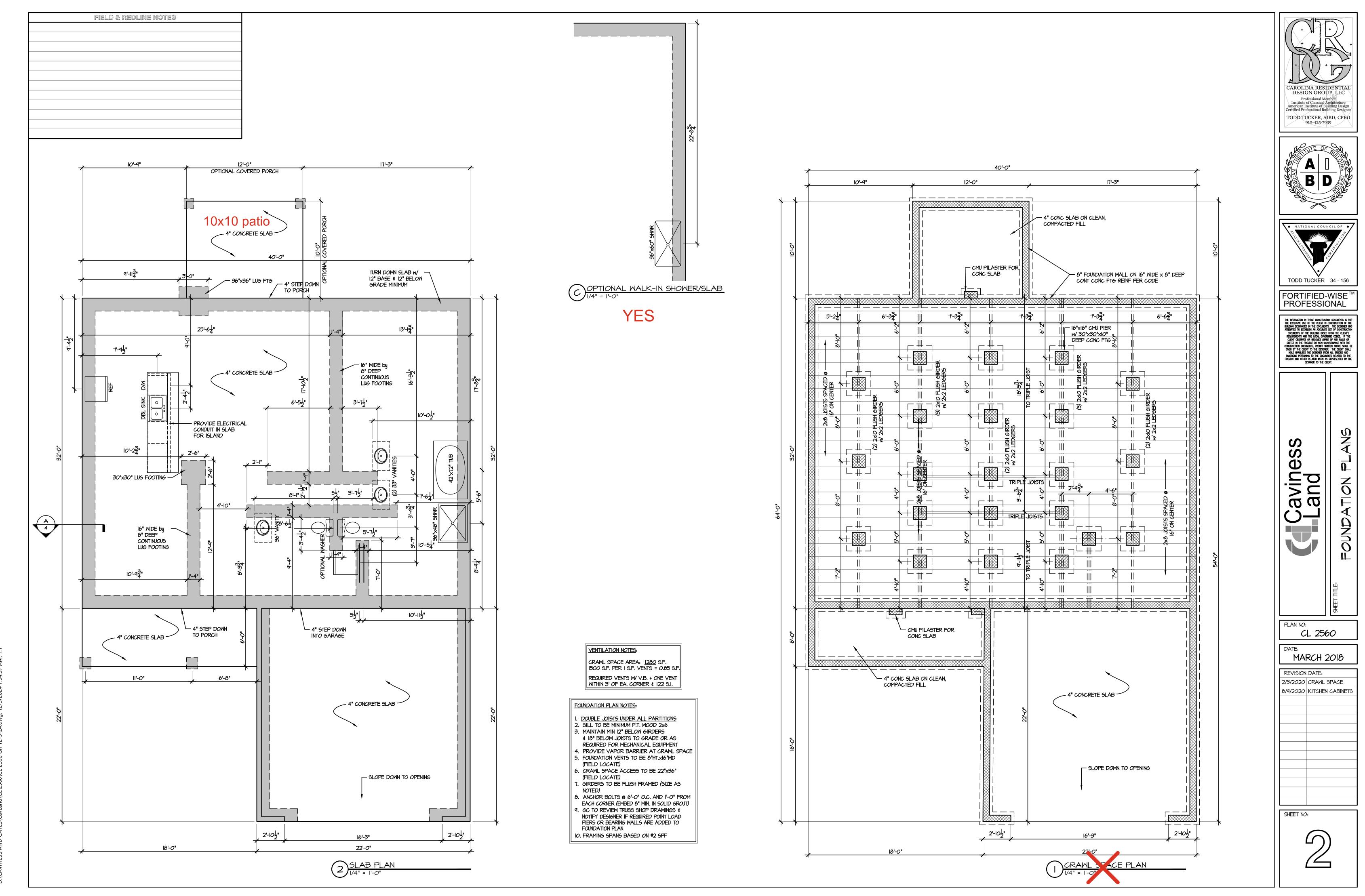
MARCH 2018

EVISION	
<-XX-XX	XYZ

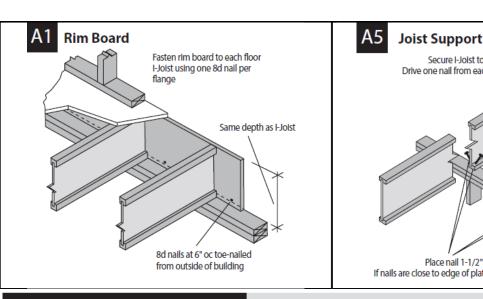
SHEET NO:

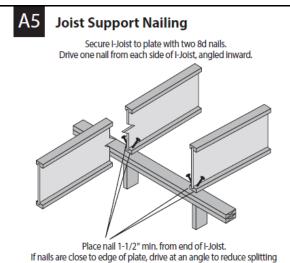


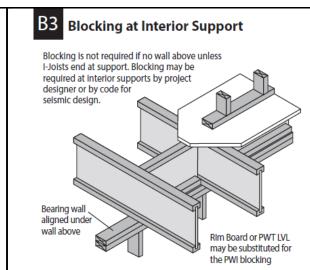
D:\CAVINESS AND CATES\CavLand\CL 2560\CL 2560 GR 12-9-24.dwg, 12/9/2024 7:34:38 AM, 1:1

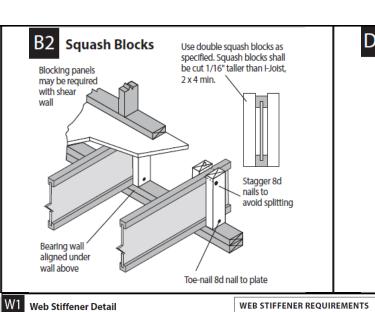


P. CAVINIESS AND CATES Company (1) 2560 CP 12 9 24 April 27 9 24 April 27 9 74 April 27 AM 1



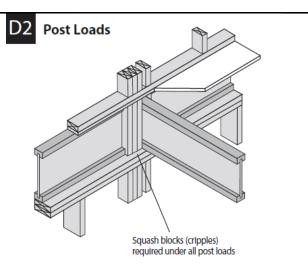






1/8" min., 1" max. gap

1/8" min., 1" max. gap



PWI 36L, LPI 36 23/32" 8d (2-1/2") - 4, 8-3/4" 5, 10-7/8" 6, 12-7/8"

PWI 56L, LPI 56 1-1/2" (2 x) 10d (3") - 4, 8-3/4" 5, 10-7/8" 6, 12-7/8"

1. Web stiffeners shall be installed in pairs – one to each side of the web. Web stiffeners are always required for the "Bird's Mouth" roof joist bearing deta Web stiffeners shall be cut to fit between the flanges of the PWT i-Joist, leaving a minimum 1/8" gap (1" maximum). At bearing locations, the stiffeners shall be installed tight to the bottom flange. At locations of concentrated loads, the stiffeners shall be installed tight to the top flange.

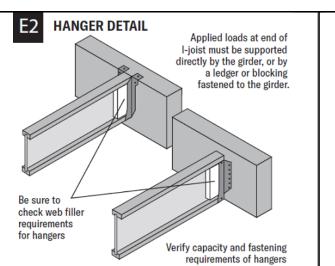
PWI 42S, PWI 52S, LPI 42Plus, LPI 52Plus 1-1/2" (2 x) 10d (3") 3, 6-3/8" 3, 8-3/4" 3, 10-7/8" 3, 12-7/8"

3. Web stiffeners shall be cut from APA Rated OSB (or equal) or from PWT LVL or OSB Rim Board. 2x lumber is permissible.

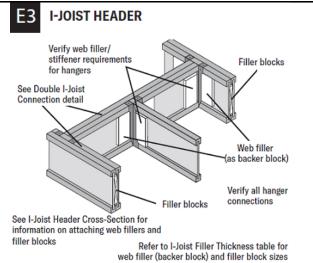
Do NOT use 1x lumber as it tends to split. Do NOT build up the required stiffener thickness from multiple pieces.

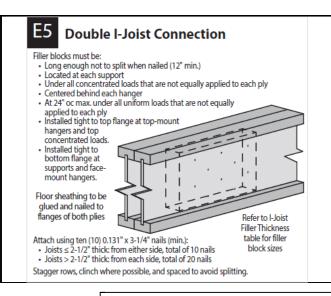
5. See Web Stiffener Requirements for minimum stiffener thickness, maximum stiffener height and required nailing

4. Web stiffeners shall be the same width as the bearing surface, with a minimum of 3-1/2".



and connectors





I Joist (Flush)

Label Description

FB4 PWI 20S

FB3 PWI 20S

FB6 PWI 20S

FB5 PWI 20S

J5 PWI 20S

J9 | PWI 20S

J8 PWI 20S J10 | PWI 20S

J11 PWI 20S

J4 PWI 20S

J2 PWI 20S

J1 PWI 20S

J3 PWI 20S

Label Description

FB1 2.0E 2900Fb PWT

FB2 2.0E 2900Fb PWT

HD2 2.0E 2900Fb PWT

HD4 2.0E 2900Fb PWT

Beam By Others (Dropped) Label Description

Label Description

Label Description

B1 PWI 20S

R1 Tolko Rim Board

Plus 1.125 X 14

26

2.0E 2900Fb PWT

LVL/LSL (Flush)

LVL/LSL (Dropped) Label Description

HD1

Rim Board

Blocking

Hanger

Width

2.5

2.5

2.5

2.5

2.5

2.5

2.5

2.5

Depth

14

14

14

14

14

14

14

14

14

Width | Depth | Qty

1.75 | 11.875 | 1

Width | Depth | Qty

Depth

Width Depth

Qty

Qty

14 | LinFt

Width

1.125

Description

IUS2.56/14 (Min)

Qty

Plies

Plies

Plies

Plies

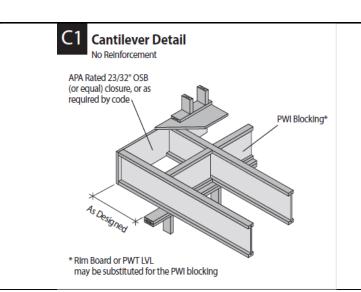
Plies

Pcs

10

16

10-0-0





2160 Satellite Blvd., Suite 450 Duluth, GA 30097 888-613-5078





	I		(Z) LOIVIDLIN
	Pcs	Length	Build on what we know"
	1	4-0-0	
	3	20-0-0	
			Dealer
	D	т .1	84 Lumber-Fayetteville #2307
	Pcs	Length	Dealer Address
	8	8-0-0	620 Belt Road
	2	6-0-0	Fayetteville, NC 28301
	2	0-0-0	(910) 867-9185
	3	22-0-0	
			Project
			CL2560 GR
	Pcs	Length	Created
	2	12-0-0	February 17, 2020
	4	8-0-0	Layout Name
			CL2560 GR
	Pcs	Length	Description
	14	12-0-0	Caviness Land
			CL2560 GR
	Pcs	Length	Designer
	Varies	32-0-0	Kyle Militzer
	varies	32 0 0	
ŀ	Beam/Girde	er	Revised
	fasteners		January 27, 2025
]	2 10dx1 1/	2	2nd Flr
			ID ' MAIL 1 ACD /TICA

Design Method

Building Code IRC 2021 Deflection Joist LL Span L/ TL Span L/ LL Cant 2L/ 180 TL Cant 2L/ Deflection Flush Girder LL Span L/ TL Span L/ 240 LL Cant 2L/ 180 TL Cant 2L/ Deflection Dropped Girder LL Span L/ 240 TL Span L/ 240 LL Cant 2L/ 180 TL Cant 2L/ Deflection Header LL Span L/ TL Span L/ 240 LL Cant 2L/ TL Cant 2L/ 180 Decking Decking 23/32 APA Rated Sturd-I-Floor

ASD (USA)

Nailed & Glued Fastener Legend WS Web Stiffener -WS In Hanger Label Denotes Web Stiffener Point Load Support (D2 Detail) Load From Above

Exterior Bearing Wall Interior Bearing Wall Non-Bearing Wall OSB/LSL Rim (Color Varies) PWI 18S/20S I Joist

PWI 32S I Joist PWI 42S/90L I Joist

Triforce/Open Joist (Color Varies) Dropped Beam (Color Varies By Product) Flush Beam (Color Varies By Product) Field Framed Pony Wall

Column

Web Hole Details WARNING: Do NOT cut or notch flanges. Uncut length of web between adjacent holes shall be at least twice the largest dimension of the two holes or 12" center-to-center, whichever is greater. Up to a 1-1/2" diameter hole allowed anywhere in the web. Closest spacing 1'-0" oc

Closest distance (x) to edge of square or rectangular hole Closest distance (x) to centerline of round hole FROM EITHER SUPPORT FROM EITHER SUPPORT

CLOSEST	DISTANCE	(X) - (FT - IN)	

CLOSES! DIS	IAITCE (A)	(1 1 114/										
SERIES	DEPTH				,	CIRCULAR	HOLE DIA	METER				
SERIES	DEPIR	2"	3"	4"	5"	6"	7"	8"	9"	10"	11"	12"
DWI 10C LDI 10	9-1/2"	1'-2"	1'-10"	2'-7"	3'-3"	4'-3"	-	-	-	-	-	-
PWI 18S, LPI 18	11-7/8"	1'-0"	1'-5"	2'-1"	2'-9"	3'-6"	4'-3"	5'-5"	-	-	-	-
	9-1/2"	1'-0"	1'-0"	1'-5"	2'-0"	2'-8"	-	-	-	-	-	-
PWI 20S,	11-7/8"	1'-0"	1'-4"	1'-11"	2'-5"	2'-11"	3'-6"	4'-0"	-	-	-	-
LPI 20Plus	14"	1'-3"	1'-8"	2'-2"	2'-7"	3'-1"	3'-6"	4'-0"	4'-6"	5'-1"	-	-
	16"	1'-8"	2'-1"	2'-6"	2'-11"	3'-4"	3'-9"	4'-3"	4'-8"	5'-1"	5'-7"	6'-3"
	9-1/2"	1'-0"	1'-2"	1'-11"	2'-9"	3'-6"	-	-	-	-	-	-
PWI 32S,	11-7/8"	1'-1"	1'-9"	2'-5"	3'-0"	3'-8"	4'-4"	5'-0"	-	-	-	-
LPI 32Plus	14"	1'-8"	2'-3"	2'-10"	3'-5"	4'-0"	4'-8"	5'-3"	5'-11"	6'-7"	-	-
	16"	2'-4"	2'-10"	3'-4"	3'-11"	4'-5"	4'-11"	5'-6"	6'-1"	6'-8"	7'-4"	8'-2"
	9-1/2"	1'-3"	2'-3"	3'-4"	4'-4"	5'-5"	-	-	-	-	-	-
PWI 42S,	11-7/8"	3'-2"	3'-10"	4'-7"	5'-3"	6'-0"	6'-9"	7'-8"	-	-	-	-
LPI 42Plus	14"	4'-5"	5'-0"	5'-7"	6'-1"	6'-8"	7'-3"	8'-0"	8'-10"	9'-11"	-	-
	16"	5'-4"	5'-10"	6'-4"	6'-10"	7'-4"	7'-10"	8'-6"	9'-3"	10'-0"	11'-0"	12'-3
DWI 526	11-7/8"	5'-0"	5'-6"	6'-2"	6'-9"	7'-5"	8'-2"	8'-11"	-	-	-	-
PWI 52S,	14"	6'-1"	6'-7"	7'-1"	7'-7"	8'-3"	8'-11"	9'-8"	10'-6"	11'-4"	-	-
LPI 52Plus	16"	7'-1"	7'-6"	7'-11"	8'-5"	9'-0"	9'-8"	10'-5"	11'-3"	12'-1"	12'-11"	13'-9
DWI 261	11-7/8"	1'-0"	2'-0"	3'-0"	4'-0"	5'-1"	6'-2"	7'-6"	-	-	-	-
PWI 36L,	14"	1'-10"	2'-8"	3'-7"	4'-5"	5'-4"	6'-3"	7'-3"	8'-6"	9'-11"	-	-
LPI 36	16"	2'-2"	3'-1"	3'-11"	4'-9"	5'-7"	6'-5"	7'-4"	8'-4"	9'-7"	10'-11"	12'-5'
DWI 561	11-7/8"	3'-9"	4'-9"	5'-9"	6'-9"	7'-9"	8'-10"	9'-11"	-	-	-	-
PWI 56L,	14"	4'-10"	5'-9"	6'-8"	7'-7"	8'-7"	9'-7"	10'-7"	11'-7"	12'-10"	-	-
LPI 56	16"	6'-0"	6'-11"	7'-9"	8'-8"	9'-7"	10'-5"	11'-4"	12'-2"	13'-3"	14'-4"	15'-11
	9-1/2"	1'-3"	2'-5"	3'-7"	4'-9"	6'-0"	-	-	-	-	-	-
PWI-53L,	11-7/8"	1'-0"	1'-7"	2'-6"	3'-8"	4'-11"	6'-2"	7'-9"	-	-	-	-
LPI 530	14"	1'-0"	1'-3"	1'-11"	2'-8"	3'-9"	4'-11"	6'-1"	7'-6"	9'-4"	-	-
	16"	1'-0"	1'-2"	1'-8"	2'-2"	2'-11"	4'-0"	5'-1"	6'-2"	7'-4"	8'-10"	11'-2'
		1		RECTAN	GULAR HO	LE MAXIM	UM DIME	NSION: DE	PTH OR W	IDTH		
SERIES	DEPTH	2"	3"	4"	5"	6"	7"	8"	9"	10"	11"	12"
	9-1/2"	2'-7"	3'-0"	3'-7"	4'-3"	5'-4"	5'-9"	6'-1"	6'-7"	7'-1"	7'-7"	8'-1"
PWI 18S, LPI 18	11-7/8"	3'-5"	3'-10"	4'-4"	4'-11"	5'-10"	7'-0"	8'-11"	9'-6"	10'-2"	10'-10"	-
	9-1/2"	2'-10"	3'-4"	3'-10"	4'-7"	5'-9"	6'-2"	6'-8"	7'-2"	7'-8"	8'-3"	8'-9"
PWI 205	11-7/8"	3'-9"	4'-2"	4'-9"	5'-5"	6'-5"	7'-9"	9'-8"	10'-4"	11'-0"	11'-8"	12'-6'

3'-2"

3'-11"

7'-5"

4'-8"

7'-9"

5'-7"

8'-2"

CUT HOLES CAREFULLY! DO NOT OVERCUT HOLES! DO NOT CUT JOIST FLANGES! Holes may be placed anywhere within the depth of the

9-1/2"

9-1/2"

11-7/8"

web. A minimum 1/4" clear distance from the flanges is recommended so as not to cut a flange. . Round holes up to 1-1/2" diameter may be placed

LPI 20Plus

PWI 32S,

LPI 32Plus

PWI 42S,

LPI 42Plus

anywhere in the web.

 Holes larger than 1-1/2" are not permitted in cantilevers without special engineering. Multiple holes shall have a clear separation along the

length of the joist of at least twice the larger dimension

of the larger adjacent hole, or a minimum of 12" center-

- to-center, whichever is greater. Multiple holes may be spaced closer provided they fit within the boundary of an acceptable larger hole. Example: two 3" round holes aligned parallel to the joist length may be spaced 2" apart (clear distance) provided that a 3" high by 8" long rectangle or an 8" diameter round hole are acceptable for the joist depth at that
- location and completely encompass the holes. These web hole tables are valid for simple and continuous span I-Joists with uniform loads only, as sized from the tables contained in PWT's current I-Joist product guides. Larger holes, non-uniform loading conditions and/or closer proximity to supports may be possible, but require further analysis using PWT's design software. Please contact your local Pacific Woodtech™
- distributor for more details. The maximum hole depth is the I-Joist Depth less 4," except the maximum hole depth is 6" for 9-1/2" PWIs, and 8" for 11-7/8" PWIs. Where the Maximum Hole Dimension exceeds the hole depth, the dimension refers to hole width and the depth of the hole is assumed to be the maximum for that joist depth. The maximum hole width is 18", regardless of I-Joist Depth.

Important Notes WARNING: Failure to follow proper procedures for handling, storage and installation

These instructions are offered as a quide to good practice in the handling, storage and installation of PWT I-Joists and LVL. They

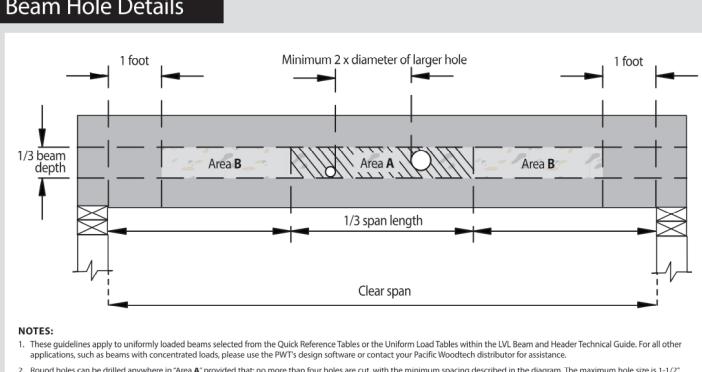
are, however, solely general recommendations and, in some instances, other or additional precautions may be desirable. In all ses, the procedures used should be as specified by the architect/engineer responsible for the entire building.

This guide is not intended for product selection, and assumes that all components and details have been correctly specified.

Consult the PWT I-Joist & LVL brochures, technical guides, installation guide, or contact your PWT products distributor

• No loads other than the weight of the workers are to be imposed on the structure before it is permanently sheathed.

could result in unsatisfactory performance, unsafe structures and possible collapse.



5'-3" | 6'-0" | 6'-11" | 8'-1" | 9'-8" | 11'-5" | 12'-0" | 12'-6" | 13'-3" | 14'-0" 5'-1" 6'-0" 7'-2" 8'-11" 11'-8" 12'-7" 13'-7" 4'-2" 3'-10" 4'-8" 5'-6" 6'-5" 7'-5" 8'-9" 10'-8" 13'-9" 17'-2" 6'-6" | 7'-4" | 8'-2" | 9'-3" | 9'-7" | 9'-11" | 10'-4" | 10'-9" | 11'-3" | 11'-9" 7'-2" 8'-0" 9'-0" 10'-0" 10'-11" 12'-1" 13'-8" 14'-3" 14'-11" 15'-7" 16'-6" 6'-0" 6'-10" 7'-10" 9'-1" 10'-10" 12'-7" 14'-7" 15'-4" 16'-3" 5'-3" | 6'-0" | 6'-9" | 7'-7" | 8'-6" | 9'-8" | 11'-2" | 13'-1" | 15'-1" | 17'-4" | 20'-7" Beam Hole Details Round holes can be drilled anywhere in "Area A" provided that: no more than four holes are cut, with the minimum spacing described in the diagram. The maximum hole size is 1-1/2" for depths up to 9-1/4", and 2" for depths greater than 9-1/4". Rectangular holes are NOT allowed. 4. DO NOT drill holes in cantilevers without prior approval from the project engineer/architect.

6'-10" 9'-0" 9'-11" 3'-7" | 4'-3" | 4'-11" | 5'-8" | 6'-8" | 8'-2" | 10'-6" | 14'-5" 6. Up to three 3/4" holes may be drilled in "Area B" to accommodate wiring and/or water lines. These holes must be at least 12" apart. The holes should be located in the middle third of

10" max dia. field cut web holes FB1 is flush with top of joists and will drop 4" below ceiling → | Start Framing Here HD2 (2 ply) HD2 (2 ply) J10 FB4 (1 ply) J10! $HD2(2i_{R1})$ HD2 (2 ply) 10" max dia. field cut web holes 10" max dia. field cut web holes **ROOF TRUSSES BY OTHERS** DB1 (2 ply) DB4 (2 ply) ATTIC TRUSSES BY OTHERS HD4 (3 ply)

2ND FLOOR FRAMING

SCALE: 1/4'' = 1'

JOIST LABELING SCHEME: (QTY) MARK x LENGTH @ O.C. SPACING

This Material Take Off is provided as an estimate of material needed for the referenced project. It is based on information provided and standard building and construction assumptions. The Take Off is provided without representation or warranty of any kind and is in no way guaranteed to reflect the exact quantity or types of material necessary to complete the project. The customer/builder and/or the architect/engineer are responsible for reviewing and verifying the listed materials based on the way they plan to construct the project. Actual material required to complete the project may be more or less than what is reflected in the Take Off, and any shortages or overages are the sole responsibility of the customer/builder and/or the architect/engineer

Installation Guide For access to the PWT installation guide, please use the camera function on your mobile device and scan this QR Code or use the web address shown below to gain access to the installation guide. https://pwtewp.com/products/pwi-joist/#features

his analysis is for PACIFIC WOODTECH • PWT Untreated products (I-Joists and LVL) must be used under dry, covered and well-ventilated interior conditions oducts only. US Lumber will not be held of lumber is 15% or less over a year and does not exceed 19% at any time (CN). ponsible if other brands are substitute

This placement plan is to be used as an installation guide only. It is meant to be used in conjunction with the manufacturers installation guide, the architectural and structural drawings, and not to replace them.

5. Other hole sizes and configurations MAY be possible with further engineering analysis.

the depth, or a minimum of 3" from the bottom and top of the beam. For beams shallower than 9-1/4," locate holes at mid-depth.

Product Substitution Warning

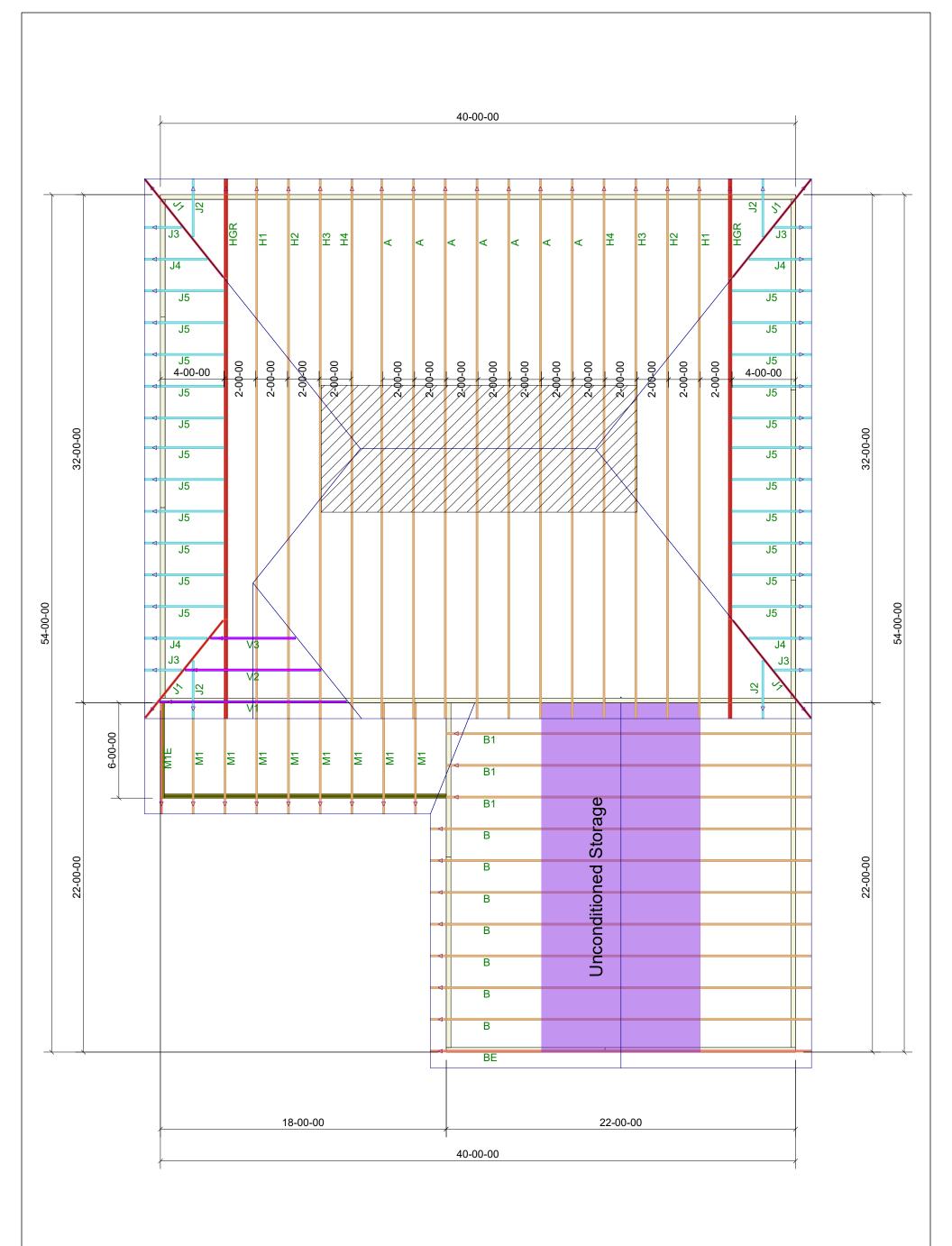
AILURE may result if this product is

stituted with other brands or products

For more information, contact your Pacific Woodtech distributor.

7. Protect plumbing holes from moisture.

After sheathing, do not overload joists with construction materials exceeding design loads.



	z	Pla	Sho	TRUSS INST PERMANE B-1 and B-3.	DO NOT CUT, UNLESS SPECIFI PROVIDED BY AN AU	Design	Location	CAVINESS LAND	
ESIGNED D. 1/27/2025	01 10	ceme	eet #	ALLATION REC NT BRACING. (PROVIDED IN THESE ARE IN IN YOUR TRU	T CUT, NOTCH SPECIFIC, WRI AN AUTHORIZ 84 LUM	ner		CL 2560 Uncondition Storage	1129 LUIVIDER
	SCALI	Trus ent P	<u>수</u> 약	CLUDED WITISS PACKET.	I, OR BORE H TTEN PERMIS ED REPRESE BER.	ᇛ	2383-Dunn	CL 2560 Uncondition Storage	84 Components 200 Emmett RdDunn NC 28334
	m	s lan	_	ORARY AND IDANCE IS H EACH JOB	BORE HOLES PERMISSION IS EPRESENTATIVE OF		nnn	Job# - Master	United States Office: (910) 892-8400



FB₂

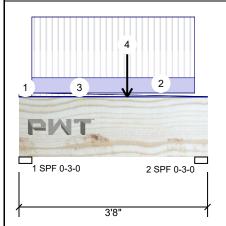
Client: Project: Address:

84 Lumber-Fayetteville #2307 Caviness Land - CL2560

Date: 12/16/2024 Input by: Kyle Militzer Job Name: CL2560 GR Project #: CL2560 GR

1.750" X 14.000" - PASSED

evel: 2nd Flr



2.0E 2900Fb PWT LVL



Page 1 of 1

Member Information Reactions PATTERNED Ib (Uplift) Application: Brg Direction Live Snow Wind Const Type: Floor Plies: Design Method: ASD 592 194 0 Vertical n 0 1 Moisture Condition: Dry **Building Code:** IRC 2021 2 Vertical 660 224 0 0 0 Load Sharing: Deflection LL: 360 No Deflection TL: 240 Deck: Not Checked Importance: Normal - II Temp <= 100°F Temperature: **Bearings** General Load 40 PSF Floor Live: Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 10 PSF Dead: 1-SPF 3.000" 35% 194 / 592 785 L D+L Vert

2 - SPF 3.000"

Vert

40%

224 / 660

884 L

D+L

Analysis Results

ĺ	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
	Moment	944 ft-lb	2'1 1/4"	13396 ft-lb	7%	D+L	L
	Shear	518 lb	2'3"	4655 lb	11%	D+L	L
	LL Defl inch	0.005 (L/8273)	2'1 1/4"	0.110 (L/360)	4%	L	L
	TL Defl inch	0.006 (L/6124)	2'1 1/4"	0.165 (L/240)	4%	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.002", Long Term = 0.003".
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top must be laterally braced at end bearings.

3 BOLLOIII I	must be laterally braced a	t end bearings.								
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Tie-In	0-0-0 to 0-3-0	0-3-7	Тор	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-3-0 to 3-5-0		Тор	60 PLF	240 PLF	0 PLF	0 PLF	0 PLF	
3	Tie-In	0-3-0 to 3-8-0	0-3-13 to 0-0-7	Тор	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
4	Point	2-1-4		Far Face	195 lb	465 lb	0 lb	0 lb	0 lb	J11
	Self Weight				7 PLF					

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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Manufacturer Info

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U.S. Lumber 2160 Satellite Blvd., Suite 450, GA U.S.A 888-613-5078





84 Lumber-Fayetteville #2307

Caviness Land - CL2560

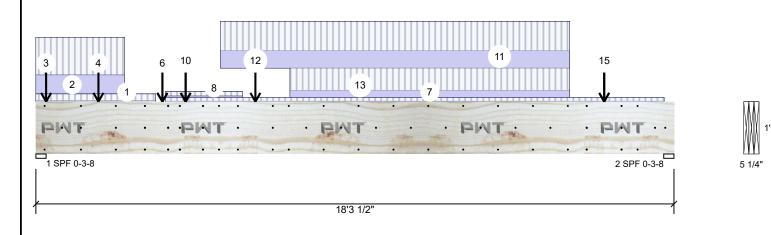
Date: 12/16/2024 Input by: Kyle Militzer

Job Name: CL2560 GR Project #: CL2560 GR

2.0E 2900Fb PWT LVL 1.750" X 18.000" FB₁

3-Ply - PASSED

Level: 2nd Flr



Member Inforr	nation			Rea	ctions PAT1	ΓERNED	lb (Uplift)			
Type:	Girder	Application:	Floor	Brg	Direction	Live	Dead	Snow	Wind	Const
Plies:	3	Design Method:	ASD	1	Vertical	4297	2957	0	0	0
Moisture Condition	: Dry	Building Code:	IRC 2021	2	Vertical	3390	2091	0	0	0
Deflection LL:	360	Load Sharing:	Yes							
Deflection TL:	240	Deck:	Not Checked							
Importance:	Normal - II									
Temperature:	Temp <= 100°F									
General Load				Bea	rings					
Floor Live:	40 PSF			Bea	aring Length	Dir.	Cap. React D/L I	b Total	Ld. Case	Ld. Comb.
Dead:	10 PSF			1 -	SPF 3.500"	Vert	93% 2957 / 429	7 7255	L	D+L
				2 -	SPF 3.500"	Vert	70% 2091 / 339	0 5481	L	D+L

Analysis Results

ĺ	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
I	Moment	27732 ft-lb	8'8"	65703 ft-lb	42%	D+L	L
I	Shear	6337 lb	1'9 1/2"	17955 lb	35%	D+L	L
I	LL Defl inch	0.208 (L/1031)	9'1 3/16"	0.595 (L/360)	35%	L	L
I	TL Defl inch	0.348 (L/615)	9' 1/16"	0.893 (L/240)	39%	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.140", Long Term = 0.211".
- 3 Fasten all plies using 3 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Nail from both sides. Clinch Nails where possible.
- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Concentrated load fastener specification is in addition to hanger fasteners if a hanger is present.
- 6 Girders are designed to be supported on the bottom edge only.
- 7 Top loads must be supported equally by all plies.
- 8 Top must be laterally braced at a maximum of 8'11 1/8" o.c.
- 9 Bottom must be laterally braced at end bearings.

O DOMONIII	naot bo laterally bracea a	t ond bodringo.								
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Tie-In	0-0-0 to 3-5-0	1-1-5	Тор	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 2-6-8		Near Face	146 PLF	284 PLF	0 PLF	0 PLF	0 PLF	
3	Point	0-3-8		Far Face	76 lb	305 lb	0 lb	0 lb	0 lb	J9
4	Point	1-9-8		Far Face	122 lb	486 lb	0 lb	0 lb	0 lb	J8
5	Point	3-7-8		Far Face	529 lb	273 lb	0 lb	0 lb	0 lb	J8

Continued on page 2...

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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Page 1 of 5



FB1

2.0E 2900Fb PWT LVL

Client: 84 Lumber-Fayetteville #2307 Project:

Address:

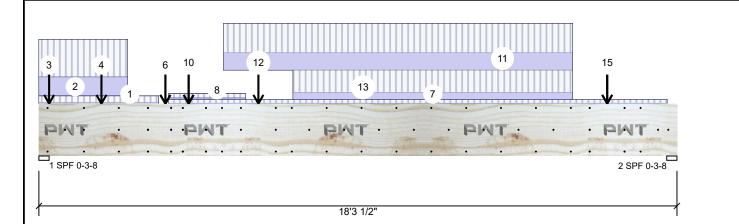
Caviness Land - CL2560

Date: 12/16/2024 Input by: Kyle Militzer Job Name: CL2560 GR

Project #: 1.750" X 18.000" 3-Ply - PASSED

Level: 2nd Flr

CL2560 GR



Continued fro	om page 1									
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
6	Point	3-7-8		Near Face	416 lb	207 lb	0 lb	0 lb	0 lb	J2
7	Tie-In	3-8-8 to 18-0-0	0-9-11	Тор	10 PSF	30 PSF	0 PSF	0 PSF	0 PSF	
8	Tie-In	3-8-8 to 5-11-0	1-1-5	Тор	10 PSF	30 PSF	0 PSF	0 PSF	0 PSF	
9	Point	4-3-8		Far Face	190 lb	292 lb	0 lb	0 lb	0 lb	J8
10	Point	4-3-8		Near Face	230 lb	221 lb	0 lb	0 lb	0 lb	J2
11	Part. Uniform	5-3-8 to 15-3-8		Far Face	132 PLF	219 PLF	0 PLF	0 PLF	0 PLF	
12	Point	6-3-8		Near Face	313 lb	332 lb	0 lb	0 lb	0 lb	J2
13	Part. Uniform	7-3-8 to 15-3-8		Near Face	55 PLF	166 PLF	0 PLF	0 PLF	0 PLF	
14	Point	16-3-8		Far Face	260 lb	432 lb	0 lb	0 lb	0 lb	J8
15	Point	16-3-8		Near Face	109 lb	328 lb	0 lb	0 lb	0 lb	J2
	Self Weight				27 PLF					

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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Page 2 of 5

5 1/4"







84 Lumber-Fayetteville #2307 Caviness Land - CL2560

Date: 12/16/2024 Input by: Kyle Militzer Job Name: CL2560 GR

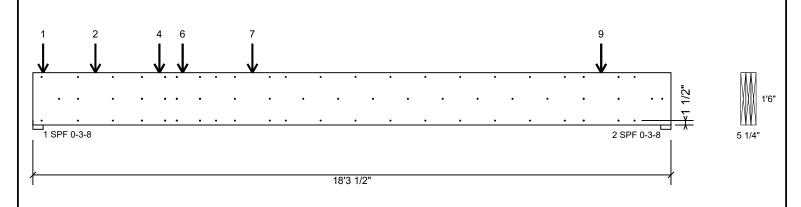
Project #:

FB₁ 2.0E 2900Fb PWT LVL 1.750" X 18.000"

3-Ply - PASSED

Level: 2nd Flr

CL2560 GR



Multi-Ply Analysis

Fasten all plies using 3 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. except for regions covered by concentrated load fastening. Nail from both sides. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	81.3 %	
Load	286.7 PLF	
Yield Limit per Foot	352.8 PLF	
Yield Limit per Fastener	117.6 lb.	
См	1	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination	D+L	
Duration Factor	1.00	

Concentrated Load

Fasten at concentrated side load at 1-9-8 with a minimum of (6) - 16d Sinker Nails (.148x3.25") in the pattern shown. Nail from both sides.

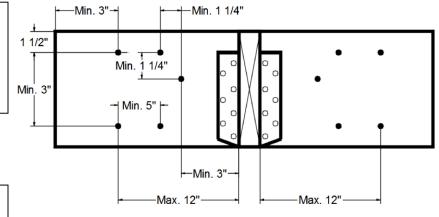
Capacity	57.5 %	
Load	405.3lb.	
Total Yield Limit	705.4 lb.	
Cg	0.9998	
Cg Cm	1	
Yield Limit per Fastener	117.6 lb.	
Yield Mode	IV	
Load Combination	D+L	
Duration Factor	1.00	

Concentrated Load

Fasten at concentrated side load at 3-7-8 with a minimum of (6) - 16d Sinker Nails (.148x3.25") in the pattern shown. Nail from both sides.

p				
Capacity	75.8 %			
Load	534.7lb.			
Total Yield Limit	705.4 lb.			
Cg Cm	0.9998			
См	1			
Yield Limit per Fastener	117.6 lb.			
Yield Mode	IV			
Load Combination	D+L			
Duration Factor	1.00			

Min/Max fastener distances for Concentrated Side Loads



Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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PR-L233 PR-L280

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Version 24.60.996 Powered by iStruct™ Dataset: 24111701.10041





84 Lumber-Fayetteville #2307

Caviness Land - CL2560

Date: 12/16/2024 Input by: Kyle Militzer

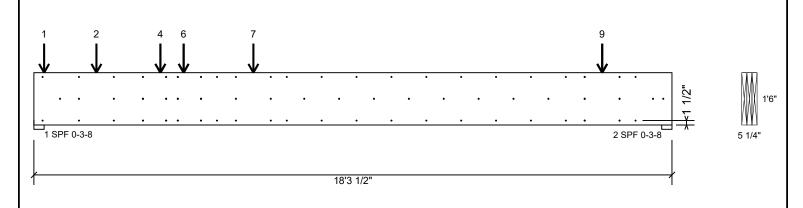
Job Name: CL2560 GR Project #: CL2560 GR

2.0E 2900Fb PWT LVL

1.750" X 18.000"

3-Ply - PASSED

Level: 2nd Flr



Multi-Ply Analysis

Concentrated Load

Fasten at concentrated side load at 4-3-8 with a minimum of (6) - 16d Sinker Nails (.148x3.25") in the pattern shown. Nail from both sides.

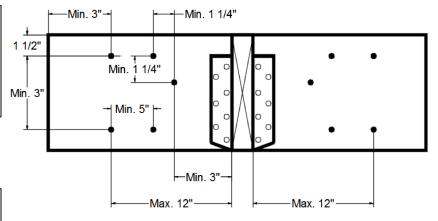
Capacity	45.6 %	
Load	321.3lb.	
Total Yield Limit	705.4 lb.	
Cg	0.9998	
Cg См	1	
Yield Limit per Fastener	117.6 lb.	
Yield Mode	IV	
Load Combination	D+L	
Duration Factor	1.00	

Concentrated Load

Fasten at concentrated side load at 6-3-8 with a minimum of (6) - 16d Sinker Nails (.148x3.25") in the pattern shown. Nail from both sides.

pattern snown. Nan norn both sides.				
Capacity	61.0 %			
Load	430.0lb.			
Total Yield Limit	705.4 lb.			
Cg	0.9998			
См	1			
Yield Limit per Fastener	117.6 lb.			
Yield Mode	IV			
Load Combination	D+L			
Duration Factor	1 00			

Min/Max fastener distances for Concentrated Side Loads



Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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U.S. Lumber 2160 Satellite Blvd., Suite 450, GA U.S.A 30097 888-613-5078

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84 Lumber-Fayetteville #2307

Caviness Land - CL2560

Date: 12/16/2024 Input by: Kyle Militzer

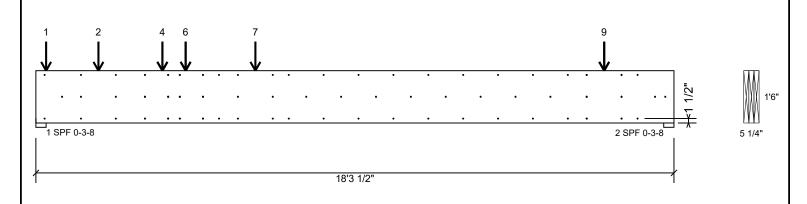
Job Name: CL2560 GR Project #: CL2560 GR

2.0E 2900Fb PWT LVL FB₁

1.750" X 18.000"

3-Ply - PASSED

Level: 2nd Flr



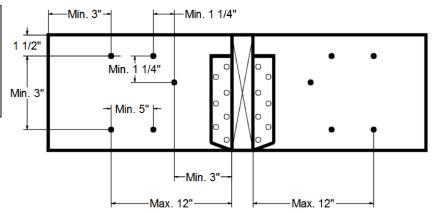
Multi-Ply Analysis

Concentrated Load

Fasten at concentrated side load at 16-3-8 with a minimum of (6) – 16d Sinker Nails (.148x3.25") in the pattern shown. Nail from both sides.

<u>.</u>		
Capacity	65.4 %	
Load	461.3lb.	
Total Yield Limit	705.4 lb.	
Cg	0.9998	
Cg Cm	1	
Yield Limit per Fastener	117.6 lb.	
Yield Mode	IV	
Load Combination	D+L	
Duration Factor	1 00	

Min/Max fastener distances for Concentrated Side Loads



Notes

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Page 5 of 5







HD2-C

Client: Project:

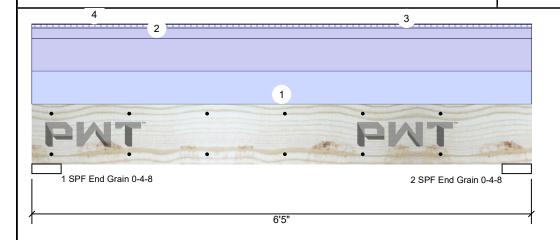
Address:

84 Lumber-Fayetteville #2307 Caviness Land - CL2560

Date: 12/16/2024 Input by: Kyle Militzer Job Name: CL2560 GR

Project #: 2.0E 2900Fb PWT LVL 1.750" X 9.250" 2-Ply - PASSED

CL2560 GR Level: 2nd Flr



Application:

Design Method:

Building Code:

Load Sharing:

Deck:

Floor

ASD

No

IRC 2021

Not Checked



Page 1 of 2

Member	Information
Type:	Girder

Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal - II Temperature: Temp <= 100°F

General Load Floor Live: 40 PSF 10 PSF Dead:

Reactions PATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	93	1573	0	0	1149
2	Vertical	93	1573	0	0	1149

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3557 ft-lb	3'2 1/2"	15520 ft-lb	23%	D+C	L
Shear	1750 lb	1'1 3/4"	7689 lb	23%	D+C	L
LL Defl inch	0.025 (L/2783)	3'2 1/2"	0.193 (L/360)	13%	С	L
TL Defl inch	0.059 (L/1175)	3'2 1/2"	0.290 (L/240)	20%	D+C	L

Bearings

Bearing I	Length	Dir.	Cap. R	eact D/L lb	Total	Ld. Case	Ld. Comb
1 - SPF 4 End Grain	4.500"	Vert	23%	1573 / 1149	2722	L	D+C
2 - SPF 4 End Grain	4.500"	Vert	23%	1573 / 1149	2722	L	D+C

Design Notes

Analysis Results

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.034", Long Term = 0.051".
- 3 Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Clinch Nails where possible.
- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be laterally braced at end bearings.
- 8 Bottom must be laterally braced at end bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 6-5-0		Тор	358 PLF	0 PLF	0 PLF	0 PLF	358 PLF	
2	Part. Uniform	0-0-0 to 6-5-0		Тор	108 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Tapered Start	0-0-0		Тор	10 PLF	29 PLF	0 PLF	0 PLF	0 PLF	
	End	6-5-0			10 PLF	29 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	0-0-0 to 6-5-0		Тор	5 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
	Self Weight				9 PLF					

Notes

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HD2-C

Client: Project: Address:

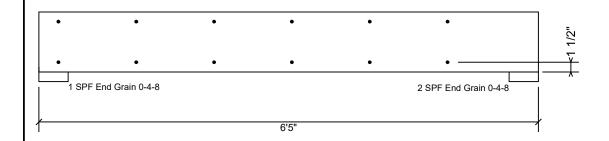
84 Lumber-Fayetteville #2307 Caviness Land - CL2560

Date: 12/16/2024 Input by:

Kyle Militzer Job Name: CL2560 GR CL2560 GR

2.0E 2900Fb PWT LVL 1.750" X 9.250" 2-Ply - PASSED

Project #: Level: 2nd Flr





Page 2 of 2

Multi-Ply Analysis

Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	0.0 %	
Load	0.0 PLF	
Yield Limit per Foot	235.2 PLF	
Yield Limit per Fastener	117.6 lb.	
См	1	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination		
Duration Factor	1 00	

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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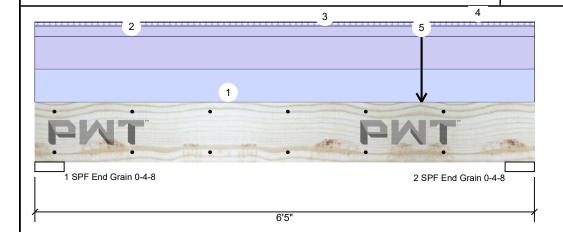
Client: 84 Lumber-Fayetteville #2307 Project: Caviness Land - CL2560

Date: 12/16/2024 Input by: Kyle Militzer Job Name: CL2560 GR Project #: CL2560 GR

2.0E 2900Fb PWT LVL 1.750" X 9.250" HD2-B 2-Ply - PASSED

Address:

Level: 2nd Flr



Application:

Design Method:

Building Code:

Load Sharing:

Deck:



Page 1 of 3

Member Information

Type: Plies: Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal - II

Temperature: Temp <= 100°F

General Load

Floor Live: 40 PSF 10 PSF Dead:

Reactions PATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	93	1743	0	0	1319
2	Vertical	93	2270	0	0	1846

Floor

ASD

No

IRC 2021

Not Checked

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4612 ft-lb	3'7 5/16"	15520 ft-lb	30%	D+C	L
Shear	3144 lb	5'3 1/4"	7689 lb	41%	D+C	L
LL Defl inch	0.034 (L/2033)	3'4 3/8"	0.193 (L/360)	18%	С	L
TL Defl inch	0.078 (L/896)	3'4 1/8"	0.290 (L/240)	27%	D+C	L

Bearings

Grain

Bearing	Length	Dir.	Cap. I	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	4.500"	Vert	26%	1743 / 1319	3062	L	D+C
2 - SPF Fnd	4.500"	Vert	35%	2270 / 1846	4116	L	D+C

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.043", Long Term = 0.065".
- 3 Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Clinch Nails where possible.
- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be laterally braced at end bearings.
- 8 Bottom must be laterally braced at end bearings.

o Bottom must be laterally braced at end bearings.										
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 6-5-0		Тор	358 PLF	0 PLF	0 PLF	0 PLF	358 PLF	
2	Part. Uniform	0-0-0 to 6-5-0		Тор	108 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Tapered Start	0-0-0		Тор	10 PLF	29 PLF	0 PLF	0 PLF	0 PLF	
	End	6-5-0			10 PLF	29 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	0-0-0 to 6-5-0		Тор	5 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
5	Point	4-11-10		Тор	867 lb	0 lb	0 lb	0 lb	868 lb	PL2 Hip Girder
0 45										

Continued on page 2...

Notes

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Client: 84 Lumber-Fayetteville #2307
Project: Caviness Land - CL2560

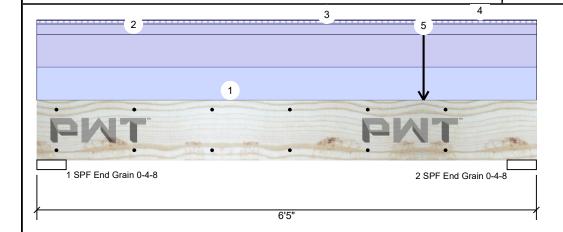
Date: 12/16/2024
Input by: Kyle Militzer
Job Name: CL2560 GR

Job Name: CL2560 GR Project #: CL2560 GR

HD2-B 2.0E 2900Fb PWT LVL 1.750" X 9.250" 2-Ply - PASSED

Address:

Level: 2nd Flr



9 1/4"

Page 2 of 3

.Continued from page 1

ID Load Type Location Trib Width Side Dead 0.9 Live 1 Snow 1.15 Wind 1.6 Const. 1.25 Comments

Bearing Length 0-3-8

Self Weight 9 PLF

Notes

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84 Lumber-Fayetteville #2307 Caviness Land - CL2560

Date: Input by:

12/16/2024 Kyle Militzer

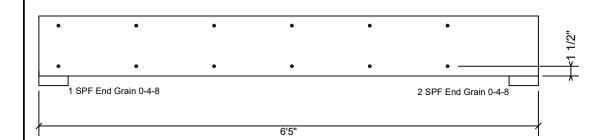
Job Name: CL2560 GR Project #: CL2560 GR

2.0E 2900Fb PWT LVL HD2-B

1.750" X 9.250"

2-Ply - PASSED

Level: 2nd Flr





Page 3 of 3

Multi-Ply Analysis

Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	0.0 %	
Load	0.0 PLF	
Yield Limit per Foot	235.2 PLF	
Yield Limit per Fastener	117.6 lb.	
См	1	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination		
Duration Factor	1 00	

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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Manufacturer Info

Pacific Woodtech Corp 1850 Park Lane Burlington, WA 98233 (800) 515-7570 www.pwtewp.com ICC-ES: ESR-2909 ESR-2403 APA: PR-L233 PR-L280

U.S. Lumber 2160 Satellite Blvd., Suite 450, GA U.S.A 30097 888-613-5078







Client: 84 Lumber-Fayetteville #2307 Project: Caviness Land - CL2560

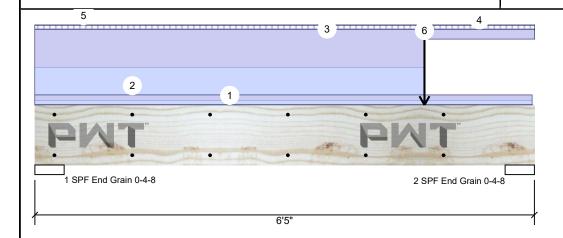
Date: 12/16/2024 Input by: Kyle Militzer Job Name: CL2560 GR

Project #: CL2560 GR

HD2-A 2.0E 2900Fb PWT LVL 1.750" X 9.250" 2-Ply - PASSED

Address:

Level: 2nd Flr



Application:

Design Method:

Building Code:

Load Sharing:

Deck:

Floor

ASD

No

IRC 2021

Not Checked



Page 1 of 3

Member Informatio	n
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Type: Girder Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal - II Temperature: Temp <= 100°F

General Load Floor Live: 40 PSF 10 PSF Dead:

Reactions PATTERNED Ib (Uplift)

_						
Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	125	1812	0	0	1391
2	Vertical	125	1944	0	0	1524

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4634 ft-lb	3'5 7/8"	15520 ft-lb	30%	D+C	L
Shear	3189 lb	5'3 1/4"	7689 lb	41%	D+C	L
LL Defl inch	0.034 (L/2021)	3'3 7/8"	0.193 (L/360)	18%	С	L
TL Defl inch	0.078 (L/892)	3'3 3/4"	0.290 (L/240)	27%	D+C	L

Bearings

Bearing	Length	Dir.	Cap. F	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	4.500"	Vert	27%	1812 / 1391	3202	L	D+C
2 - SPF End Grain	4.500"	Vert	29%	1944 / 1524	3468	L	D+C

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.044", Long Term = 0.065".
- 3 Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Clinch Nails where possible.
- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be laterally braced at end bearings.
- 8 Bottom must be laterally braced at end bearings

e Bettern must be laterally brased at one bearings.										
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 6-4-9		Тор	57 PLF	0 PLF	0 PLF	0 PLF	58 PLF	
2	Part. Uniform	0-0-0 to 5-0-1		Тор	335 PLF	0 PLF	0 PLF	0 PLF	335 PLF	
3	Part. Uniform	0-0-0 to 6-5-0		Тор	108 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Tapered Start	0-0-0		Тор	10 PLF	39 PLF	0 PLF	0 PLF	0 PLF	
	End	6-5-0			10 PLF	39 PLF	0 PLF	0 PLF	0 PLF	
5	Part. Uniform	0-0-0 to 6-5-0		Тор	5 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
Continued or	n page 2									

Notes

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U.S. Lumber 2160 Satellite Blvd., Suite 450, GA U.S.A 888-613-5078





Client: 84 Lumber-Fayetteville #2307
Project: Caviness Land - CL2560

Address:

Date: 12/16/2024
Input by: Kyle Militzer

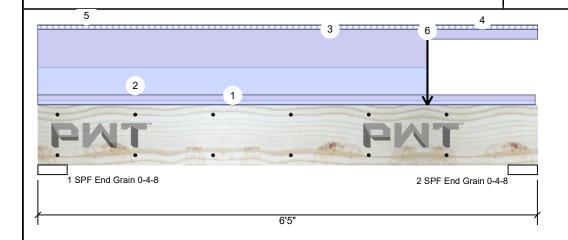
Job Name: CL2560 GR Project #: CL2560 GR

HD2-A 2.0E 2900Fb PWT LVL

1.750" X 9.250"

2-Ply - PASSED

Level: 2nd Flr



9 1/4"

3 1/2

Page 2 of 3

.Continued from page 1

Location Trib Width Dead 0.9 Live 1 Snow 1.15 ID Load Type Side Wind 1.6 Const. 1.25 Comments 6 Point 5-0-1 Тор 867 lb 0 lb 0 lb 0 lb 868 lb PL1 Hip Girder

Bearing Length 0-3-8

Self Weight 9 PLF

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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Client: 84 Lu Project: Cavir

Address:

84 Lumber-Fayetteville #2307 Caviness Land - CL2560 Date: 12/ Input by: Kyle

12/16/2024 Kyle Militzer Page 3 of 3

Job Name: CL2560 GR Project #: CL2560 GR

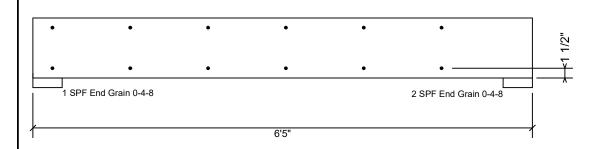
HD2-A 2.0E 2900Fb PWT LVL

1.750" X 9.250"

2-Ply - PASSED

Level: 2nd Flr





Multi-Ply Analysis

Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	235.2 PLF
Yield Limit per Fastener	117.6 lb.
См	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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HD2

Client: Project:

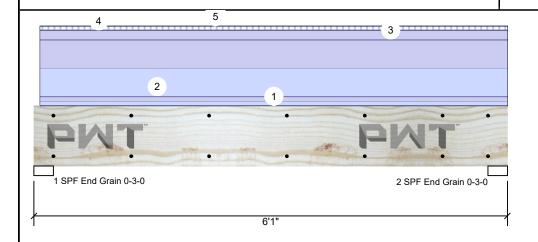
Address:

84 Lumber-Fayetteville #2307 Caviness Land - CL2560

Date: 12/16/2024 Input by: Kyle Militzer Job Name: CL2560 GR Project #: CL2560 GR

2.0E 2900Fb PWT LVL 1.750" X 9.250" 2-Ply - PASSED

Level: 2nd Flr





Page 1 of 2

Member Information

Type: Girder Plies: 2 Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal - II Temperature:

General Load

Floor Live: 40 PSF

Temp <= 100°F

10 PSF

Application: Floor Design Method: ASD **Building Code:** IRC 2021

Load Sharing: No Deck:

Not Checked

Reactions PATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	115	1552	0	0	1163
2	Vertical	119	1595	0	0	1195

Bearings

End Grain

Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.000" 1552 / 1163 D+C Vert 2714 L End Grain 2 - SPF 3.000" 1595 / 1195 2790 L D+C Vert

Analysis Results

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3736 ft-lb	3' 1/2"	15520 ft-lb	24%	D+C	L
Shear	1854 lb	5' 3/4"	7689 lb	24%	D+C	L
LL Defl inch	0.026 (L/2631)	3' 1/2"	0.190 (L/360)	14%	С	L
TL Defl inch	0.061 (L/1127)	3' 1/2"	0.285 (L/240)	21%	D+C	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.035", Long Term = 0.052".
- 3 Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Clinch Nails where possible.
- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be laterally braced at end bearings.
- 8 Rottom must be laterally braced at end bearings

8 Bollom must	be laterally braced at									
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-1-0 to 6-1-0		Тор	57 PLF	0 PLF	0 PLF	0 PLF	58 PLF	
2	Part. Uniform	0-1-0 to 6-1-0		Тор	335 PLF	0 PLF	0 PLF	0 PLF	335 PLF	
3	Part. Uniform	0-1-0 to 6-1-0		Тор	108 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Tapered Start	0-1-0		Тор	10 PLF	39 PLF	0 PLF	0 PLF	0 PLF	
	End	6-1-0			10 PLF	39 PLF	0 PLF	0 PLF	0 PLF	
5	Part. Uniform	0-1-0 to 6-1-0		Тор	5 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
	Self Weight				9 PLF					

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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U.S. Lumber 2160 Satellite Blvd., Suite 450, GA U.S.A 888-613-5078





84 Lumber-Fayetteville #2307 Caviness Land - CL2560

Date: 12/16/2024 Input by:

Kyle Militzer

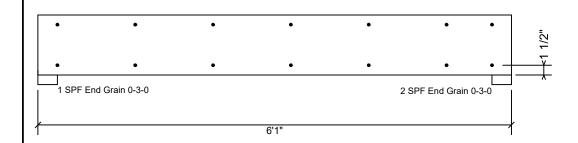
Page 2 of 2

Job Name: CL2560 GR Project #: CL2560 GR

HD2 2.0E 2900Fb PWT LVL 1.750" X 9.250"

2-Ply - PASSED

Level: 2nd Flr





Multi-Ply Analysis

Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	235.2 PLF
Yield Limit per Fastener	117.6 lb.
См	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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Client: Project:

Address:

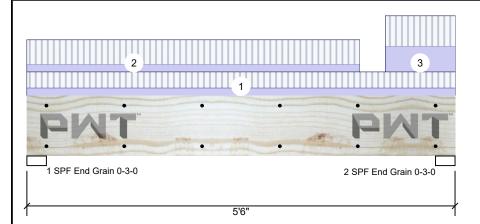
84 Lumber-Fayetteville #2307 Date: 12/16/2024 Caviness Land - CL2560 Input by: Kyle Militzer

Job Name: CL2560 GR Project #: CL2560 GR

Level: 2nd Flr

HD4 2.0E 2900Fb PWT LVL 1.750" X 9.250"

2-Ply - PASSED



Application:

Design Method:

Building Code:

Load Sharing:

Deck:

Floor

ASD

No

IRC 2021

Not Checked



Page 1 of 2

Member Information

Type: Plies: Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance:

Normal - II Temp <= 100°F Temperature:

General Load

40 PSF Floor Live: 10 PSF Dead:

Reactions PATTERNED Ib (Uplift)

I	Brg	Direction	Live	Dead	Snow	Wind	Const
I	1	Vertical	1561	683	0	0	0
I	2	Vertical	1567	860	0	0	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2667 ft-lb		12416 ft-lb	21%	D+L	ı
Shear	1408 lb		6151 lb	23%	D+I	
				2070	D.L	
	0.025 (L/2423)		0.171 (L/360)			
TL Defl inch	0.037 (L/1672)	2'9"	0.256 (L/240)	14%	D+L	L

Bearings

Grain

Bearing	Length	Dir.	Cap. Re	eact D/L lb	Total	Ld. Case	Ld. Comb
1 - SPF End Grain	3.000"	Vert	28%	683 / 1561	2244	L	D+L
2 - SPF End	3.000"	Vert	31%	860 / 1567	2427	L	D+L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.011", Long Term = 0.017".
- 3 Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Clinch Nails where possible.
- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be laterally braced at end bearings.
- 8 Bottom must be laterally braced at end bearings.

	-	,	<u> </u>									
II	D	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
1	1	Part. Uniform	0-0-0 to 5-6-0		Тор	116 PLF	226 PLF	0 PLF	0 PLF	0 PLF	J1	
2	2	Part. Uniform	0-0-0 to 4-3-4		Тор	121 PLF	347 PLF	0 PLF	0 PLF	0 PLF	J4	
3	3	Part. Uniform	4-7-4 to 5-6-0		Тор	376 PLF	450 PLF	0 PLF	0 PLF	0 PLF	J5	
		Self Weight				9 PLF						

Notes

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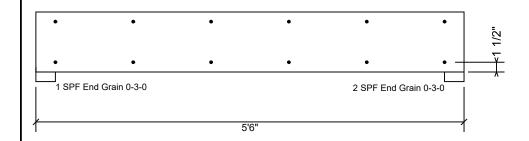
84 Lumber-Fayetteville #2307 Caviness Land - CL2560

Date: 12/16/2024 Input by:

Kyle Militzer Job Name: CL2560 GR Project #: CL2560 GR

HD4 2.0E 2900Fb PWT LVL 1.750" X 9.250" 2-Ply - PASSED

Level: 2nd Flr





Page 2 of 2

Multi-Ply Analysis

Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	235.2 PLF
Yield Limit per Fastener	117.6 lb.
См	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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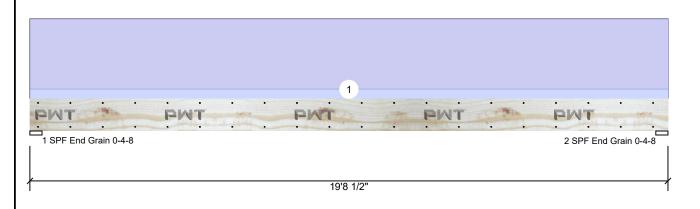
84 Lumber-Fayetteville #2307

Caviness Land - CL2560

Date: 12/16/2024 Input by: Kyle Militzer

Job Name: CL2560 GR Project #: CL2560 GR

2.0E 2900Fb PWT LVL 1.750" X 11.875" HD₁ 3-Ply - PASSED Level: 2nd Flr





5 1/4"

Page 1 of 2

Type:	Girder		Application	n:	Floor	
Plies:	3		Design M	ethod:	ASD	
Moisture Cond	lition: Dry		Building (Code:	IRC 2021	
Deflection LL:	360		Load Sha	ıring:	Yes	
Deflection TL:	240		Deck:	I	Not Checked	
Importance:	Normal - II					
Temperature:	Temp <= 10	0°F				
General Load						
Floor Live:	40 PSF					
Dead:	10 PSF					
Analysis Re	sults					
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	7185 ft-lb	9'10 1/4"	27943 ft-lb	26%	D	Uniform
Shear	1340 lb	18'4 1/8"	10661 lb	13%	D	Uniform
LL Defl inch	0.042 (L/5399)	9'10 5/16"	0.636 (L/360)	7%	С	L

Reactions PATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1555	0	0	197
2	Vertical	0	1555	0	0	197

Bearings

Bearing	Length	Dir.	Cap. F	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	4.500"	Vert	10%	1555 / 197	1752	L	D+C
2 - SPF End Grain	4.500"	Vert	10%	1555 / 197	1752	L	D+C

Design Notes

TL Defl inch 0.377 (L/607)

Member Information

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.335", Long Term = 0.502".
- 3 Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Nail from both sides. Clinch Nails where possible.

9'10 5/16" 0.954 (L/240) 40%

- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be laterally braced at end bearings.
- 8 Bottom must be laterally braced at end bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 19-8-8		Top	140 PLF	0 PLF	0 PLF	0 PLF	20 PLF	

Self Weight 18 PLF

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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Client: Project:

Address:

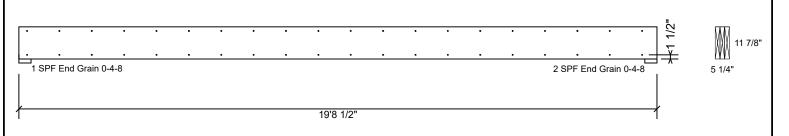
84 Lumber-Fayetteville #2307 Caviness Land - CL2560

12/16/2024 Kyle Militzer

Input by: Job Name: CL2560 GR Project #: CL2560 GR

Date:

2.0E 2900Fb PWT LVL 1.750" X 11.875" HD₁ 3-Ply - PASSED Level: 2nd Flr



Multi-Ply Analysis

Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. Nail from both sides. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	235.2 PLF
Yield Limit per Fastener	117.6 lb.
См	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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